

IOWA ACUTE DISEASE MONTHLY UPDATE

CENTER FOR ACUTE DISEASE EPIDEMIOLOGY

June, 2018



Iowa Department of public Health

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INTRODUCTION

The Center for Acute Disease Epidemiology (CADE) uses the most recent Council of State and Territorial Epidemiologists (CSTE) / Centers for Disease Control and Prevention (CDC) case definitions found on the [National Notifiable Disease Surveillance System \(NNDSS\)](#) page. These definitions are used to classify the case as confirmed, probable, suspect, not a case, or awaiting more information. **Only confirmed and probable cases meeting the CSTE/CDC case definitions are included in official case counts.**

CADE began using the suspect case definition as a final classification on Jan 1, 2017. Suspect cases are not included in the official case count but only meant to better estimate burden of disease. Any counts in this report from dates prior to Jan 1, 2017 do not include suspect cases.

Disease case counts were compiled from the Iowa Disease Surveillance System (IDSS). Data are provisional and subject to monthly reporting variation.

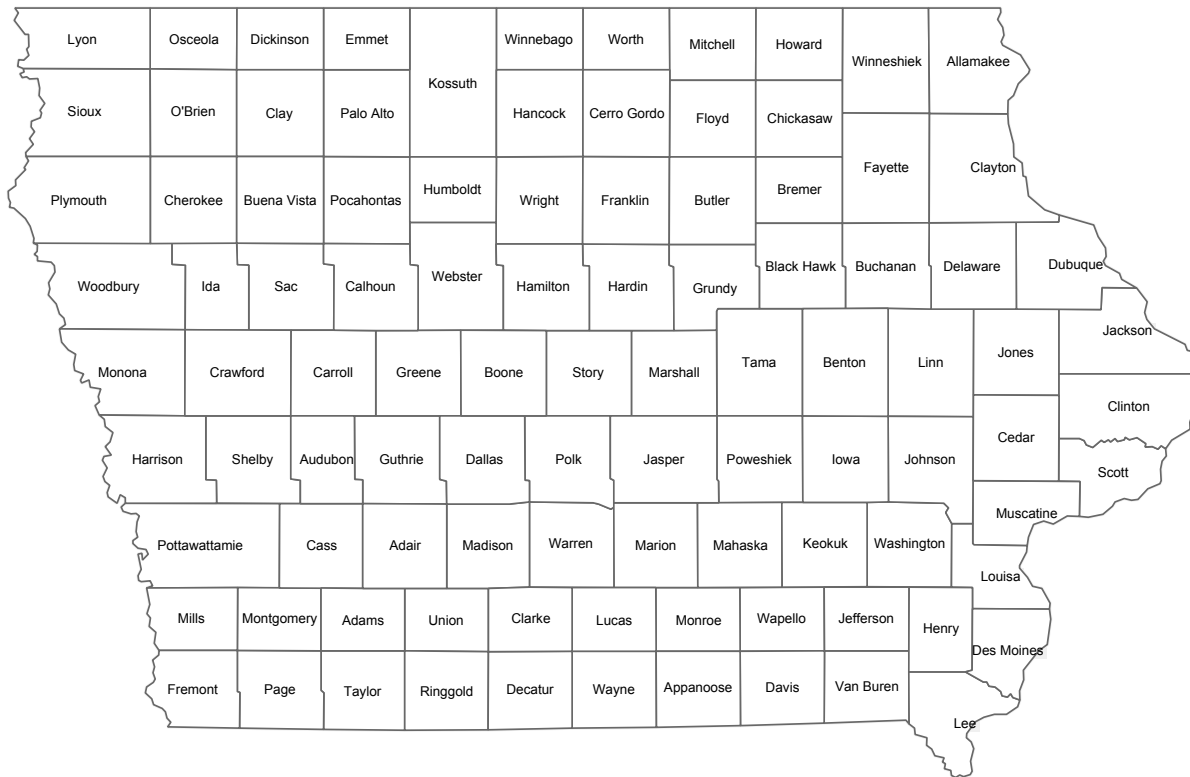
Hospitalization data is collected from the IDSS database. In some instances, cases may have been hospitalized for reasons other than the disease indicated.

Forecasting was done using Tableau forecast models.

Rates were calculated using the April 1, 2010 estimated census population for the State of Iowa.

Iowa County Boundaries and Population

2010 Census Data



April 1, 2010 population estimates

Adair	7,682	Floyd	16,303	Monona	9,243
Adams	4,029	Franklin	10,680	Monroe	7,970
Allamakee	14,330	Fremont	7,441	Montgomery	10,740
Appanoose	12,887	Greene	9,336	Muscatine	42,745
Audubon	6,119	Grundy	12,453	O'Brien	14,398
Benton	26,076	Guthrie	10,954	Osceola	6,462
Black Hawk	131,090	Hamilton	15,673	Page	15,932
Boone	26,306	Hancock	11,341	Palo Alto	9,421
Bremer	24,276	Hardin	17,534	Plymouth	24,986
Buchanan	20,958	Harrison	14,928	Pocahontas	7,310
Buena Vista	20,260	Henry	20,145	Polk	430,640
Butler	14,867	Howard	9,566	Pottawattamie	93,158
Calhoun	9,670	Humboldt	9,814	Poweshiek	18,914
Carroll	20,816	Ida	7,089	Ringgold	5,131
Cass	13,956	Iowa	16,355	Sac	10,350
Cedar	18,499	Jackson	19,848	Scott	165,224
Cerro Gordo	44,151	Jasper	36,842	Shelby	12,167
Cherokee	12,072	Jefferson	16,843	Sioux	33,704
Chickasaw	12,439	Johnson	130,882	Story	89,542
Clarke	9,286	Jones	20,638	Tama	17,767
Clay	16,667	Keokuk	10,511	Taylor	6,317
Clayton	18,129	Kossuth	15,543	Union	12,534
Clinton	49,116	Lee	35,862	Van Buren	7,570
Crawford	17,096	Linn	211,226	Wapello	35,625
Dallas	66,135	Louisa	11,387	Warren	46,225
Davis	8,753	Lucas	8,898	Washington	21,704
Decatur	8,457	Lyon	11,581	Wayne	6,403
Delaware	17,764	Madison	15,679	Webster	38,013
Des Moines	40,325	Mahaska	22,381	Winnebago	10,866
Dickinson	16,667	Marion	33,309	Winneshiek	21,056
Dubuque	93,653	Marshall	40,648	Woodbury	102,172
Emmet	10,302	Mills	15,059	Worth	7,598
Fayette	20,880	Mitchell	10,772	Wright	13,229

Case Counts for May 2018

Confirmed, Probable, and Suspect Cases

Note: Only counties with cases in April are displayed in the table.

	Anaplasmosis/ Ehrlichiosis	Campylobacteriosis	CRE	Cryptosporidiosis	Cyclosporiasis	E. coli (STEC)	Giardiasis	Hemolytic uremic syndrome	Hepatitis B (acute and chronic)	Hepatitis D	Lyme	Malaria	Mumps	Pertussis	Salmonellosis	Shigellosis	Grand Total
Adair		1				1									2		4
Allamakee											1						3
Appanoose		2		1													3
Benton						1											1
Black Hawk												1			4	1	6
Boone		1													1		2
Bremer														1	1		2
Buchanan				3		1					1						5
Buena Vista				1			1								2		4
Calhoun						3											3
Cass		1															1
Cerro Gordo		2							1					7			10
Chickasaw		1															1
Clarke		1		3		2									1		7
Clay							1										1
Clayton				2	1									1	1		5
Clinton		1		1													2
Crawford		1													1		2
Dallas		2		1	2										2		7
Decatur							1										1
Delaware		7		2			1								1		11
Des Moines		2													1		3
Dickinson		1															1
Dubuque		6		1		3		1			2				1	1	15
Emmet															1		1
Fayette		1		1										6			8
Floyd		1															1
Franklin		2															2
Greene		1													1		2
Grundy		1															1
Hamilton															1		1
Hardin						1											1
Howard		2															2
Humboldt						1											1
Ida		3															3
Iowa		1															1
Jackson		3		1											2		6
Jasper		2		2			2										6
Johnson		4				2	1				1				3		11
Jones		1		2			1								1		5
Keokuk		1															1
Kossuth		1															1
Lee			2												1		3
Linn		5				3			2	1	2		1		2		16
Louisia		1															1
Lucas		1													1		5
Lyon				3											1		3
Madison				2													2
Marion		1					3								1		3
Marshall															1		1
Mills		1															1
Mitchell		3		1											2		6
Monona				1													1
Monroe											1						1
Muscatine															1		1
O'Brien		1															1
Osceola		2															2
Page															1		1
Palo Alto		1															1
Plymouth				2			1										3
Polk		14		1	3				2						5	1	26
Pottawattamie		2		1		1									1		5
Poweshiek															1		1
Ringgold						1											1
Sac				2													2
Scott		2				3									3		8
Shelby															2		2
Sioux		7		1		1									1		10
Story		3			2							1			2	1	9
Tama		1		1							1				2		5
Union		1															1
Van Buren	1																1
Wapello		3															3
Warren		1		1					1		1				3		7
Wayne															1		1
Webster		3				2											5
Winneshiek		2															2
Woodbury		5		3		1			1						2		12
Worth		1															1
Wright		1				1											2
Grand Total	1	115	2	40	8	28	12	1	7	1	10	2	1	15	63	4	310

Confirmed, Probable, and Suspect Cases

[illegible]

YTD Case Counts

(Counties K-W)

Confirmed, Probable, and Suspect Cases

	Anaplasmosis/ Ehrlichiosis	Campylobacteriosis	CRE	Cryptosporidiosis	Cyclosporiasis	E. coli (STEC)	Giardiasis	Hansen	Hemolytic uremic syndrome	Hepatitis A	Hepatitis B (acute and chronic)	Hepatitis D	Legionellosis	Listeria	Lyme	Malaria	Meningococcal invasive disease	Mumps	Pertussis	Q Fever (acute and chronic)	Rocky Mountain spotted fever	Rubella	Salmonellosis	Shigellosis	Typhoid Fever	VISA	Zika virus	Total
Decatur							1																					1
Keokuk		2																		1								3
Kossuth		3																					3					6
Lee		1	3	1									1								1		5			1		13
Linn		25		4	1	7	1				7	1	1	1	4			2	4		1		72	1				132
Louisa		1																			1		1				1	4
Lucas		4		3			1																3					11
Lyon		4		3							1												3					11
Madison		2		2		2	3																8					17
Mahaska		2				2																	5					9
Marion		5		2			1										1						3					12
Marshall		1		1		1	1								1								7					12
Mills		3		1			1															1						6
Mitchell		3		5		2																	3					13
Monona				1																								1
Monroe	1			1		1	1								1								1					6
Montgomery		1																					5					6
Muscatine		6									1		2				1	1					7	1				19
O'Brien		6																				1	3					10
Osceola		5																							1			6
Page																							2					2
Palo Alto		2					1							1														4
Plymouth		1		9			1																7					18
Pocahontas		5									1												1					7
Polk		119		16	4	20	16			1	18				2	3		3	3				76	8				289
Pottawattamie		8		1		1	2				1												8					21
Poweshiek							1				1								1				3					6
Ringgold		2		2		1	1																1					7
Sac		6		9		1	1				1												2					20
Scott		12		1		9				1	1				2				5				15	9				55
Shelby		3		2																			8					13
Sioux		14		10		4	1																15					44
Story		10		2	2	1	2				2				1	1		1					13	2				37
Tama		3		1		1									1								6					12
Taylor						1																	1					2
Union		2		1																			7					10
Van Buren	1	2				1	1													1								6
Wapello		5		5							2			1									5					18
Warren		5		2		1					1		1		1				1				14					26
Washington		1		1			1				1								4				5					13
Wayne																							1					1
Webster		8		2		4					1				1								14					30
Winnebago		2																					1					3
Winneshiek		3									2																	5
Woodbury		10	1	17		1	1				6					1							14					51
Worth		1																										1
Wright		5				2																	2					9
Grand Total	3	492	6	197	10	114	73	1	1	4	69	1	9	4	33	8	1	18	71	3	5	1	560	34	1	1	1	1721

Case Counts for June 1, 2017 - May 31, 2018

(Counties A-E)

Confirmed, Probable, and Suspect Cases

	Anaplasmosis/Ehrlichiosis	Babesiosis	Campylobacteriosis	Chikungunya	CRE	Cryptosporidiosis	Cyclosporiasis	Dengue	E. coli (STEC)	Giardiasis	Haemophilus influenzae type b	Hansen	Hemolytic uremic syndrome	Hepatitis A	Hepatitis B (acute and chronic)	Legionellosis	Listeria	Lyme	Malaria	Meningococcal invasive disease	Mumps	Pertussis	Q Fever (acute and chronic)	Rocky Mountain spotted fever	Salmonellosis	Shigellosis	Tularemia	West Nile virus	Grand Total
Adair			5			3			2													2			4				16
Adams			1			1			1																				3
Allamakee	4		12			13			2	1								6							13			1	52
Appanoose			8			4			2						1							3		1	4				23
Audubon			3						2	1															2				8
Benton	1		13			10			9	2					1	2		8			6	1			14	1			68
Black Hawk			9	1		3			2	5					8	3		8	1	1	6	15			25	4			91
Boone			14			5	1		5	1	1		1					2							15				45
Bremer			3						1						2			1			1	2			7	1			18
Buchanan			9		2	6			4	6	1							1			2				9				40
Buena Vista			22		1	7			1	2			1		4			1							7	8		1	55
Butler			1							1						1							1		5				9
Calhoun			14				1		8						1									1	5	1			31
Carroll			8			8			5													2			12				35
Cass			3			3			3	1					2			1						1	4				18
Cedar			5			7			3	1					1			3							7	1			28
Cerro Gordo	1		20		3	4			3	1					2		1	2				18			14				69
Cherokee	1		1			1			4								1	1							5				14
Chickasaw		1	3		1	1										1		2							6				15
Clarke			18			6			4	1															5	1			35
Clay			6			2				2					1										6				17
Clayton	1		10		1	19	1		4	1			1		2			15			1	5			6				67
Clinton			17		1	5			3						4	2					2	1			19				54
Crawford			11			5			5	1				1	4										2	1			30
Dallas	1		38		2	26	2	1	10	6					3			4			1	7		2	31	8			142
Davis			1			1								1															3
Decatur			1			2			1	2																1	1		8
Delaware			22			12			4	3								2			1	1			12				57
Des Moines	1		14			10			7					2				1							17	2			54
Dickinson			9			5			1						1			2							2				20
Dubuque	2		45		5	28	1		24	13		1	1		4	4		35			2	3		1	30	4			203
Emmet			1			2			1							1									3				8

Case Counts for June 1, 2017 - May 31, 2018

(Counties F-L)

Confirmed, Probable, and Suspect Cases

	Anaplasmosis/Ehrlichiosis	Campylobacteriosis	CRE	Cryptosporidiosis	Cyclosporiasis	E. coli (STEC)	Giardiasis	Hemolytic uremic syndrome	Hepatitis B (acute and chronic)	Hepatitis D	Lacrosse	Legionellosis	Listeria	Lyme	Malaria	Mumps	Pertussis	Q Fever (acute and chronic)	Rocky Mountain spotted fever	Salmonellosis	Shigellosis	Tetanus	West Nile virus	Grand Total
Fayette		6		1		2	2		3					3			17			6				40
Floyd		9							1					2						5				17
Franklin		4	1			2	1									1				5	2			16
Fremont		2																	1		1			4
Greene		14				4	2													6				26
Grundy		1												2		1				7				11
Guthrie		9	1	2		4	1		1							1	2			5	1			27
Hamilton		4		2		3											1	1		4	1			16
Hancock		4	1	5			1													5				16
Hardin	1	12				3	1							1						3				21
Harrison	1	3				3									1				1	1				10
Henry		3		1		1	1													6				12
Howard		11		3					1											3		1		19
Humboldt		7		1		2	1									1				1				13
Ida		4		2																1			1	8
Iowa	1	7		5		3	1											1		1				19
Jackson		13	1	5		5	5							6		2	3			11				51
Jasper		23	2	7		4	5		1					1	1				1	18				63
Jefferson	1	6		3	1		3		2					1	2		3			2				24
Johnson	1	43	1	13	4	29	18		17			1	1	32	3	3	22			41	2			231
Jones		18	4	18		5	5		1					2						7				60
Keokuk		6	1	5		1											1	1	1	2				18
Kossuth		7	1	1		4	2		1											4				20
Lee		5	15	5		2	2					1							1	8	3			42
Linn	1	65	7	34	2	23	23		22	1		1	1	31	1	5	12		1	114	4		1	349
Louisa		3				1	1		1									1		2				9
Lucas	1	13		6		5	2				1							1		3				32
Lyon		9		7		7	1	1	1											10			2	38

Case Counts for June 1, 2017 - May 31, 2018

(Counties M-W)

Confirmed, Probable, and Suspect Cases

	Anaplasmosis/Ehrlichiosis	Babesiosis	Campylobacteriosis	Chikungunya	CRE	Cryptosporidiosis	Cyclosporiasis	Dengue	E. coli (STEC)	Giardiasis	Haemophilus influenzae type b	Hemolytic uremic syndrome	Hepatitis A	Hepatitis B (acute and chronic)	Hepatitis D	Hepatitis E	Lacrosse	Legionellosis	Listeria	Lyme	Malaria	Meningococcal invasive disease	Mumps	Pertussis	Q Fever (acute and chronic)	Rocky Mountain spotted fever	Salmonellosis	Shigellosis	Tetanus	Tularemia	West Nile virus	Grand Total
Madison			13			9			5	4																	9			1		41
Mahaska			9			1	2		4	2																	10					28
Marion			12			5			2	1										1		1		1			6					29
Marshall	1		9	1	2	3			4	3			5	1				1		3							14					47
Mills			5			4			1	1								1									1	1	2			16
Mitchell			17	1	14				12	2																	5					51
Monona			1			1				1																	2					5
Monroe	1		1			2			4	1										1				2			3					15
Montgomery			4																								5					9
Muscatine			18	3	2	1	1	12	1				3		1		3		2	1		1	1			12	25					87
O'Brien			13	2	1					1																1	5					23
Osceola			6			1																					1	1			1	10
Page			6			1			2	1																	6					16
Palo Alto			11						1	1									1								1					15
Plymouth			7	2	17				4	4																	8					42
Pocahontas			12			2			6		1		1														4					26
Polk			238	7	60	10	1	61	52			3	75	3			2		18	9			6	29	1	2	138	26			1	742
Pottawattamie			20			5	1	1	4	5			5				2		2					4		1	20	3			1	74
Poweshiek			4			1			2	1			1											1		1	6				1	18
Ringgold			4			4			2	1										1							1					13
Sac			15			12			3	4			1														6					41
Scott	1		41	4	8	1		22	12	1			1	8			4		13	1	1		39			30	55					242
Shelby			7			8			4			1													1		16					37
Sioux			30			34	2		6	6				1					1						1		29	2				112
Story	3	1	35	1	12	3			6	13				6			1		5	3			3				24	5			1	122
Tama			6			4			2											2			1				13	3				31
Taylor									1																		1					2
Union			11			3			6	1				1													9					31
Van Buren	1		8			3			2	1														1	1		1					18
Wapello			18			7			4				8	1				1	1	1			1			8						50
Warren		1	19	2	10				5	7			3				1		1				1	3		1	25	1				80
Washington			9			3			2	2			1											7			9					33
Wayne																											3					3
Webster			12			3		1	8	3				1						3			1				21					53
Winnebago	2		4			2														1							2					11
Winneshie	1		14	1	12				2				2		1					8			4				4					49
Woodbury	1		20	5	32		1	5	8				16						1	1				4		1	22	1			1	119
Worth			4	1	5				3																							13
Wright			13	1	1				3																		3	4				25
Grand Total	30	3	1334	1	82	616	36	6	444	268	3	7	9	230	6	2	1	32	6	240	25	3	53	214	10	20	1055	175	1	2	12	4926

Campylobacter

115

Cases in May

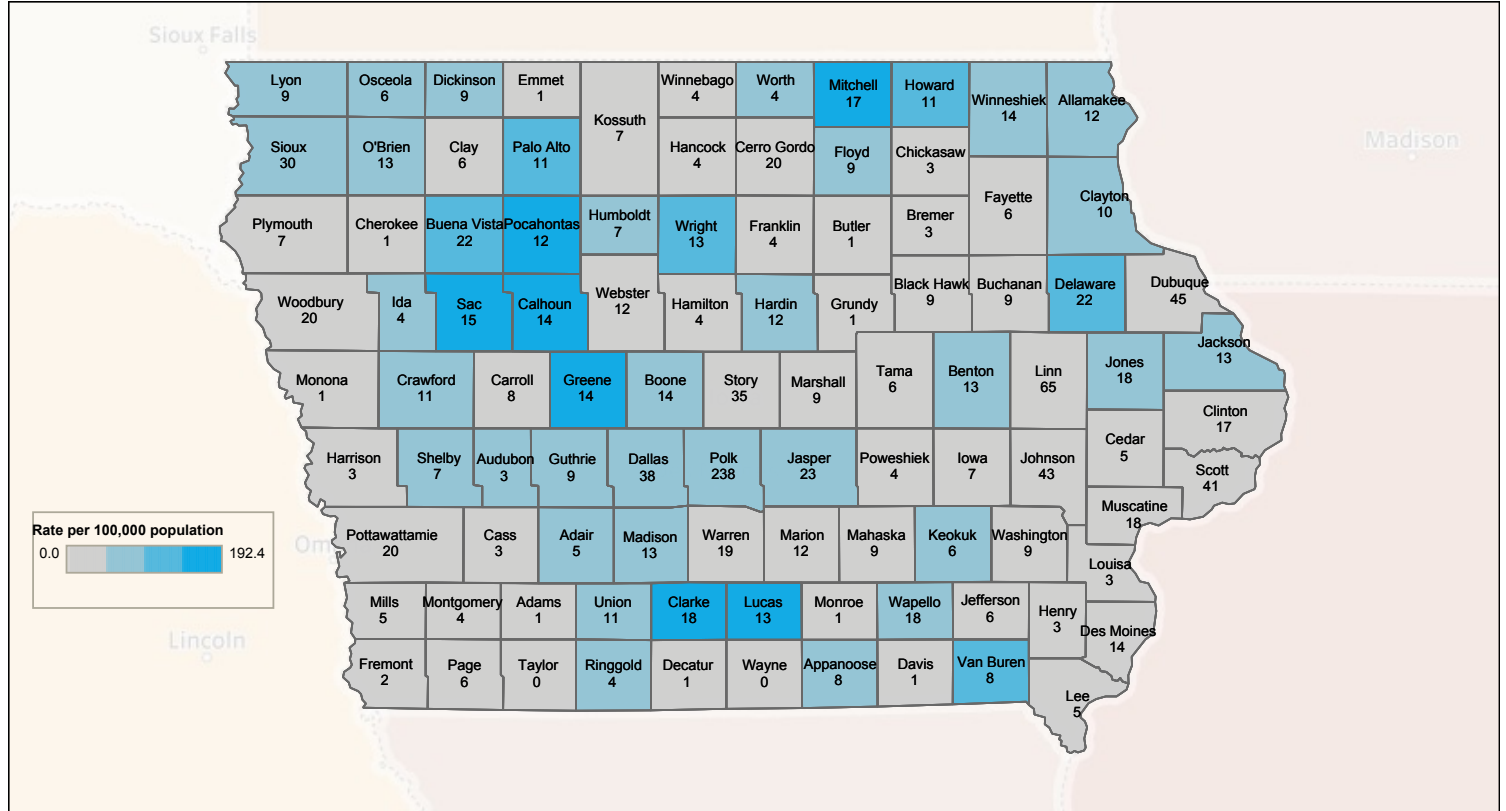
1334

Cases in the last 12 months

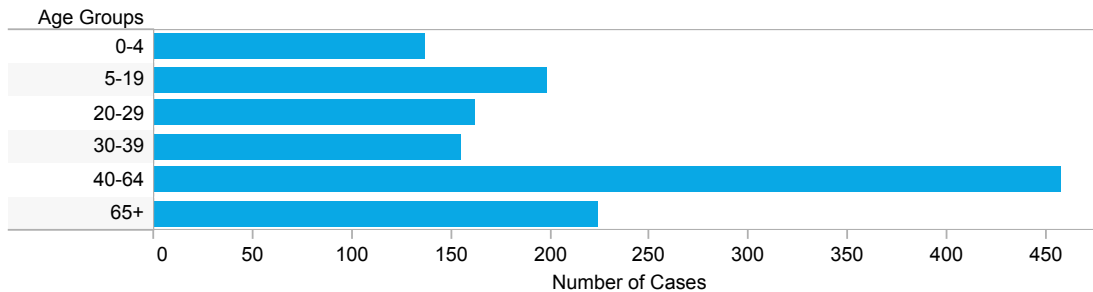
+78%

Change from previous
5 year average

Reported campylobacteriosis cases and incidence rates per 100,000 population by county of residence for the past 12 months



Campylobacteriosis cases by age in the past 12 months.



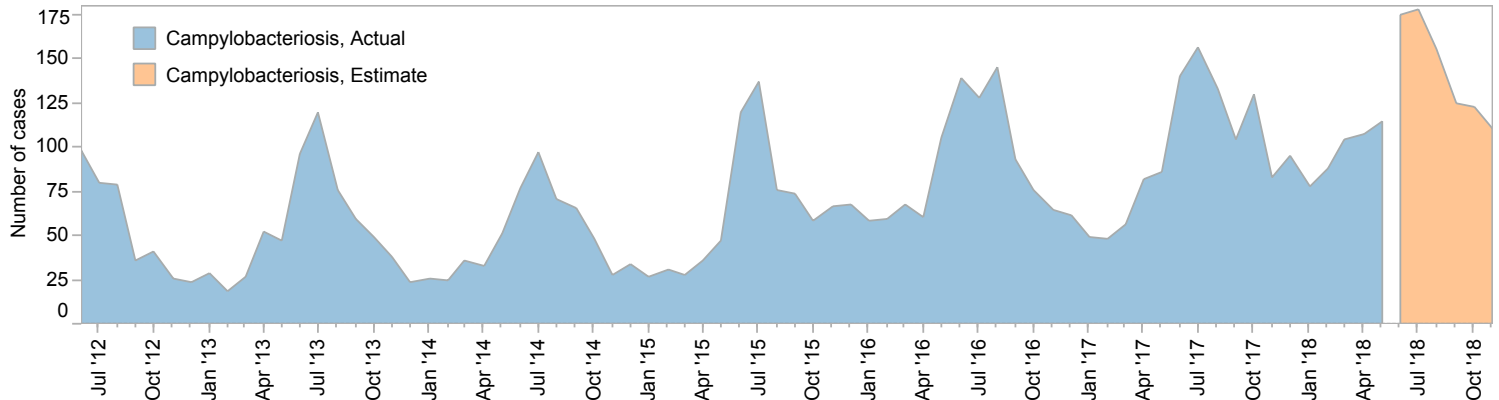
Hospitalizations in the past 12 months

110 (8%)

Campylobacteriosis cases by gender in the past 12 months

Female	617
Male	716

Reported campylobacteriosis cases by date of onset or first lab report and 6 month forecast



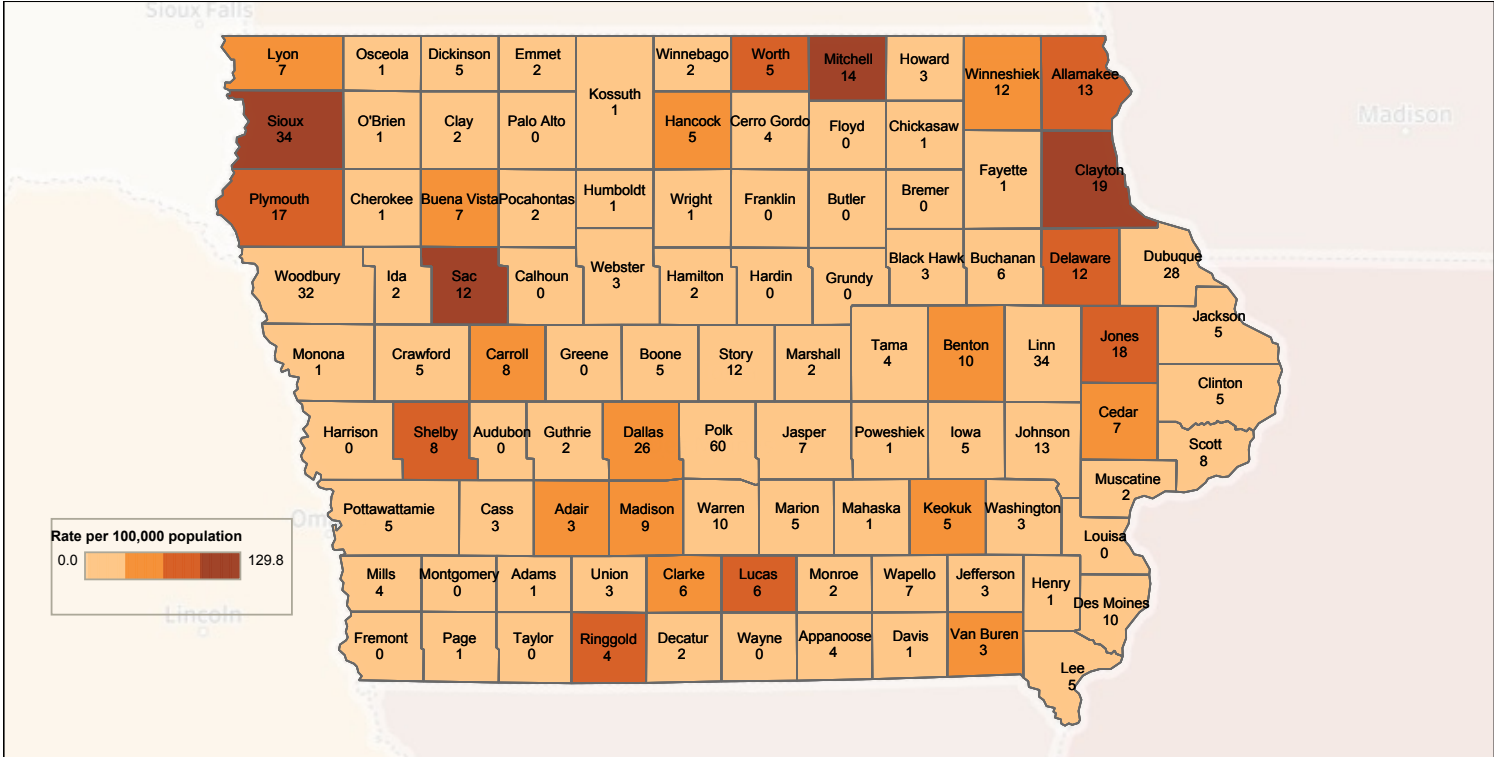
Cryptosporidium

Cases in May

Cases in the last 12 months

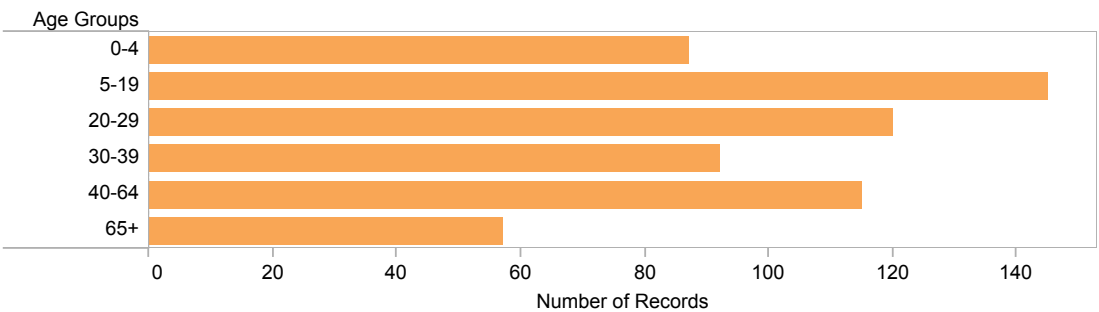
Change from previous
5 year average

Reported cryptosporidiosis cases and incidence rates per 100,000 population by county of residence for the past 12 months



Cryptosporidiosis cases by age past 12 months

Hospitalizations in the past 12 months

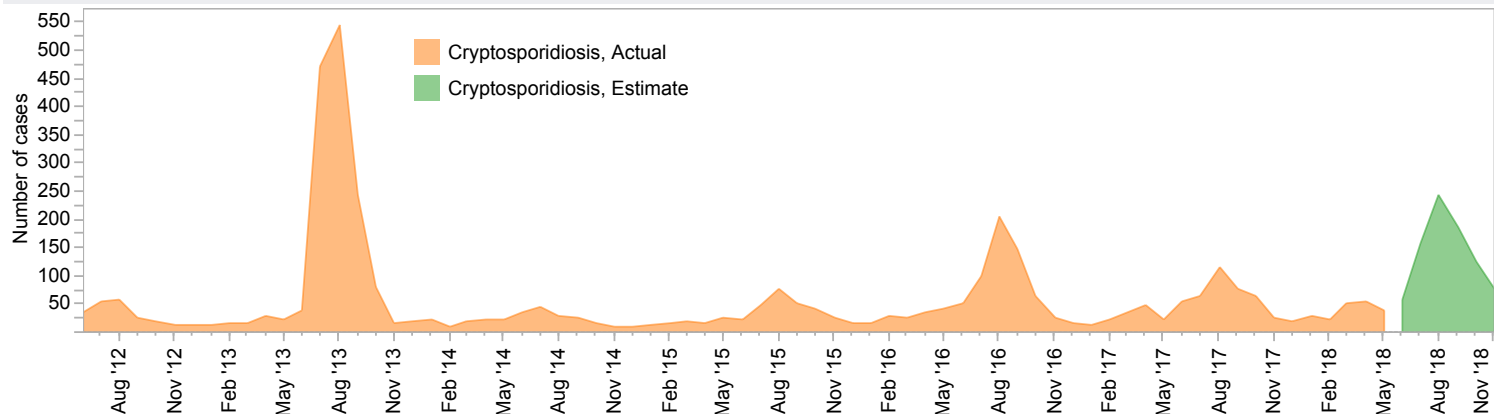


66 (11%)

Cryptosporidiosis cases by gender past 12 months

Female	348
Male	268

Reported cryptosporidiosis cases by date of onset or first lab result and 6 month forecast



E. coli (STEC)

28

Cases in May

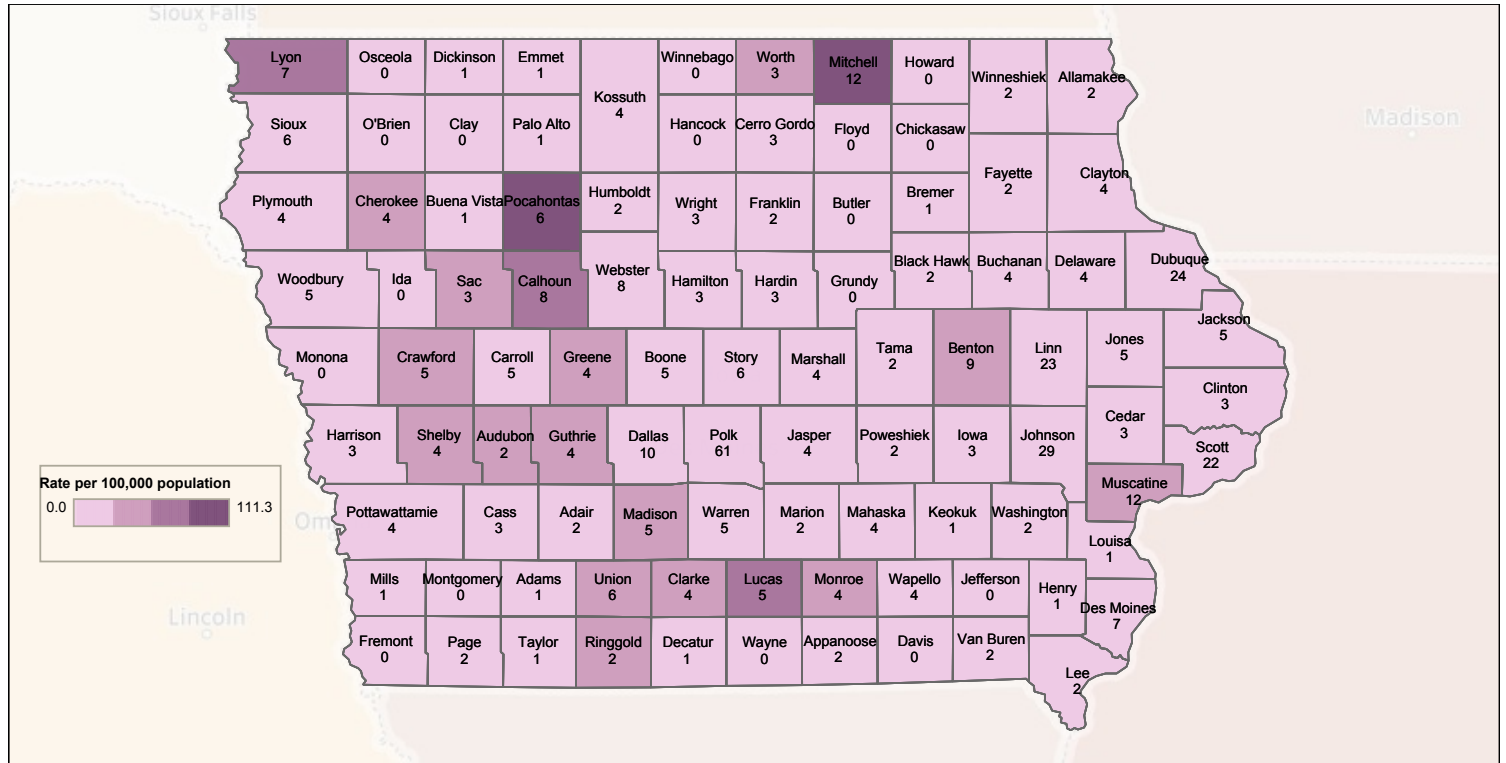
444

Cases in the last 12 months

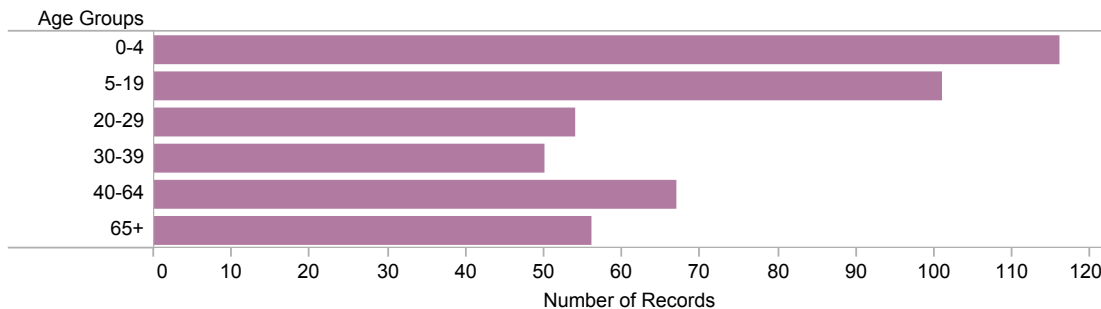
+108%

Change from previous
5 year average

Reported *E. coli* (STEC) cases and incidence rates per 100,000 population by county of residence for the past 12 months



E. coli cases by age past 12 months. Almost half of all cases occur in the 0-19 age groups.



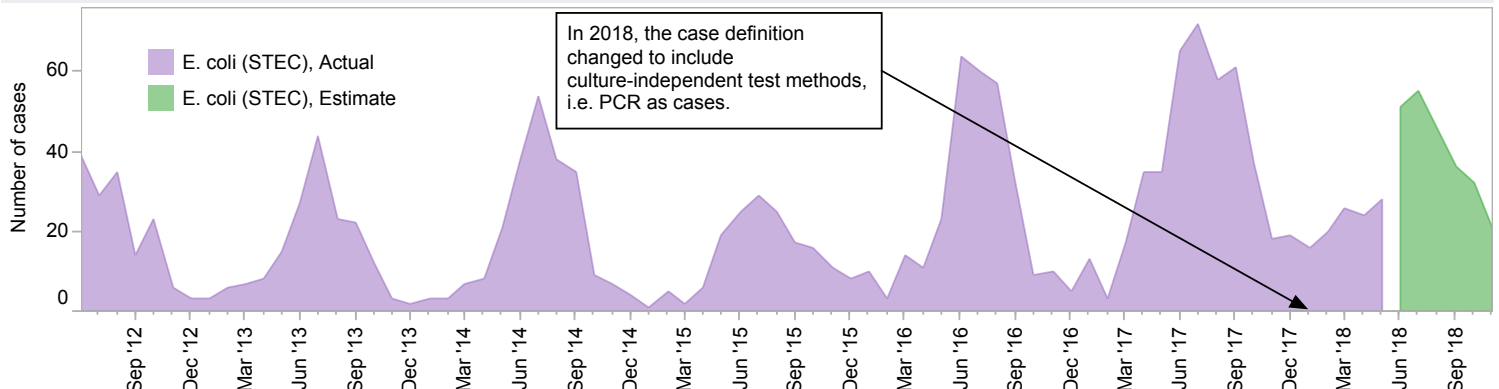
Hospitalizations in the past 12 months

93 (21%)

E. coli cases by gender past 12 months

Female	227
Male	217

Reported *E. coli* (STEC) cases by date of onset or first lab result and 6 month forecast



Giardia

12

Cases in May

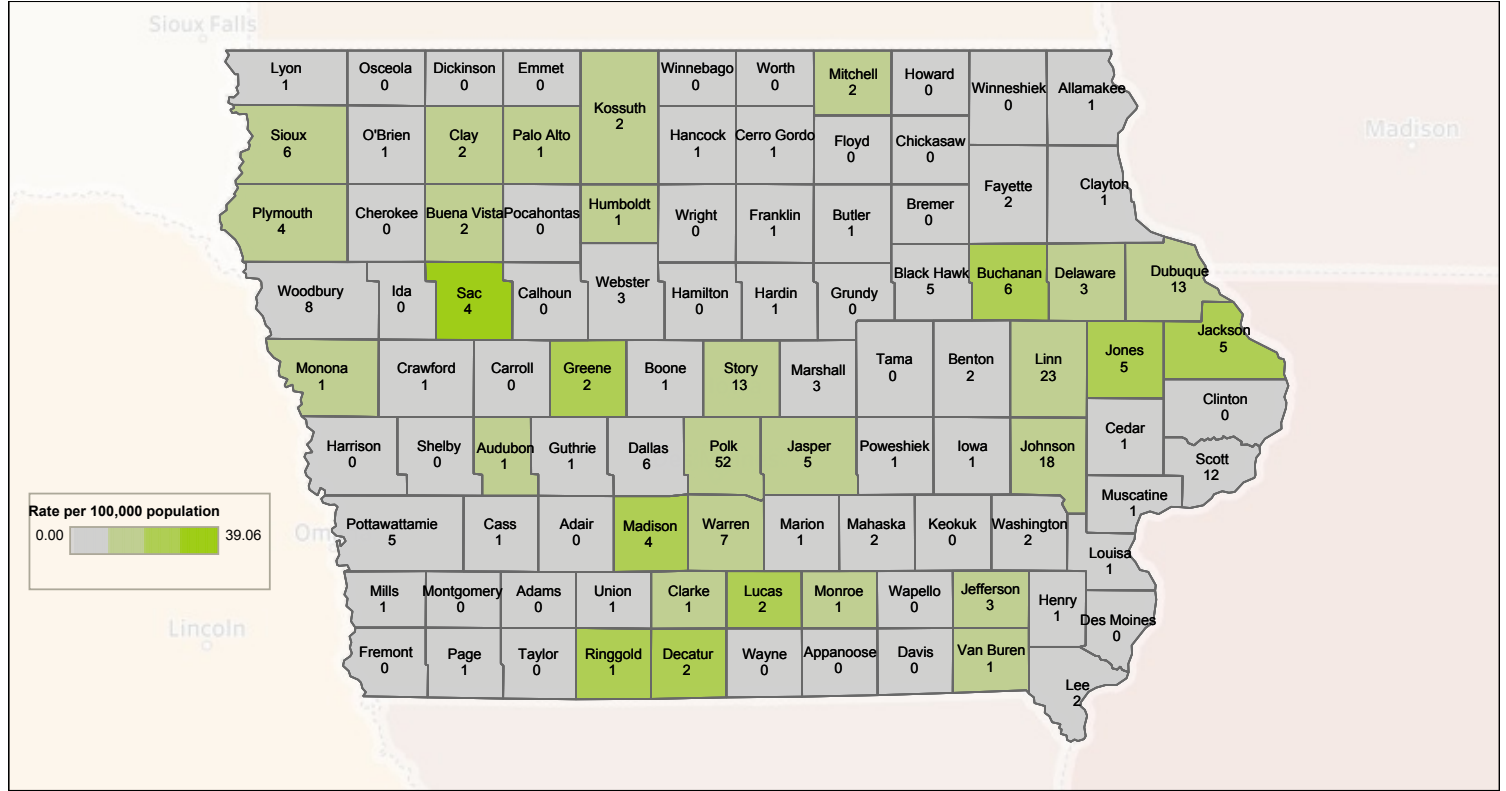
268

Cases in the last 12 months

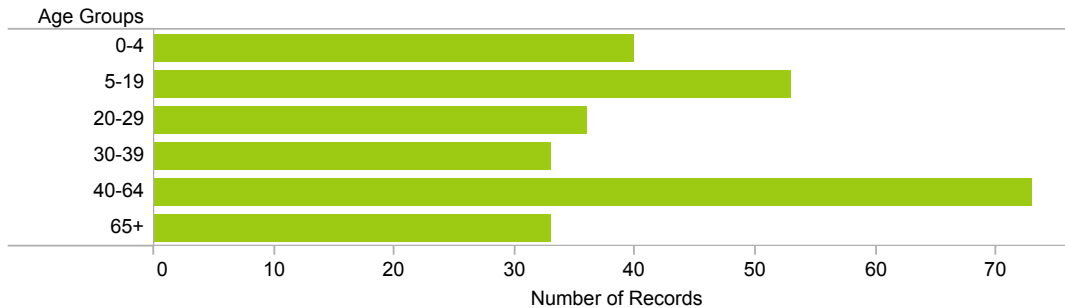
+11%

Change from previous
5 year average

Reported giardiasis cases and incidence rates per 100,000 population by county of residence for the past 12 months



Giardiasis cases by age past 12 months.



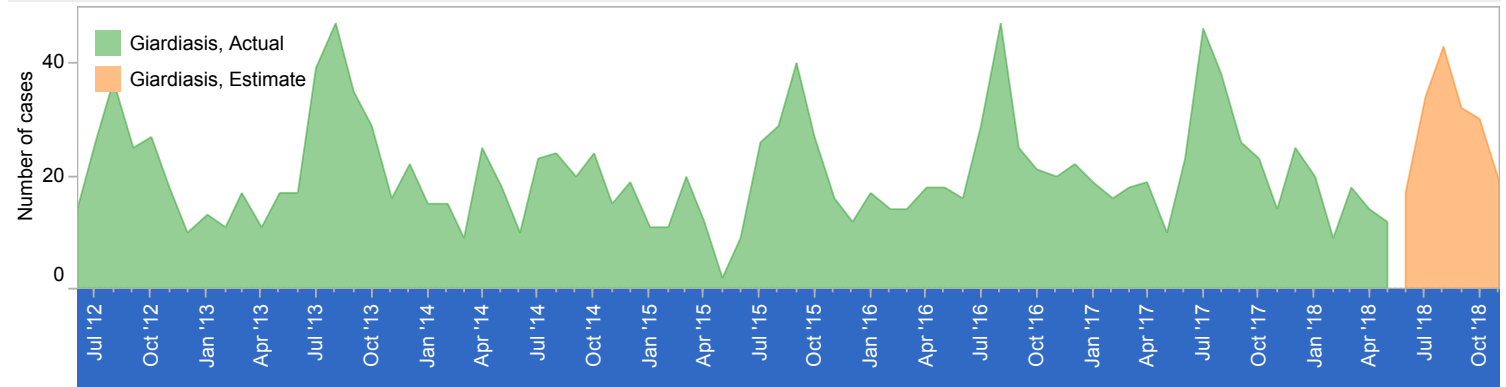
Hospitalizations in the past 12 months

25 (9%)

Giardiasis cases by gender past 12 months

Female	116
Male	152

Reported giardiasis cases by date of onset or first lab result and 6 month forecast



Lyme disease

10

Cases in May

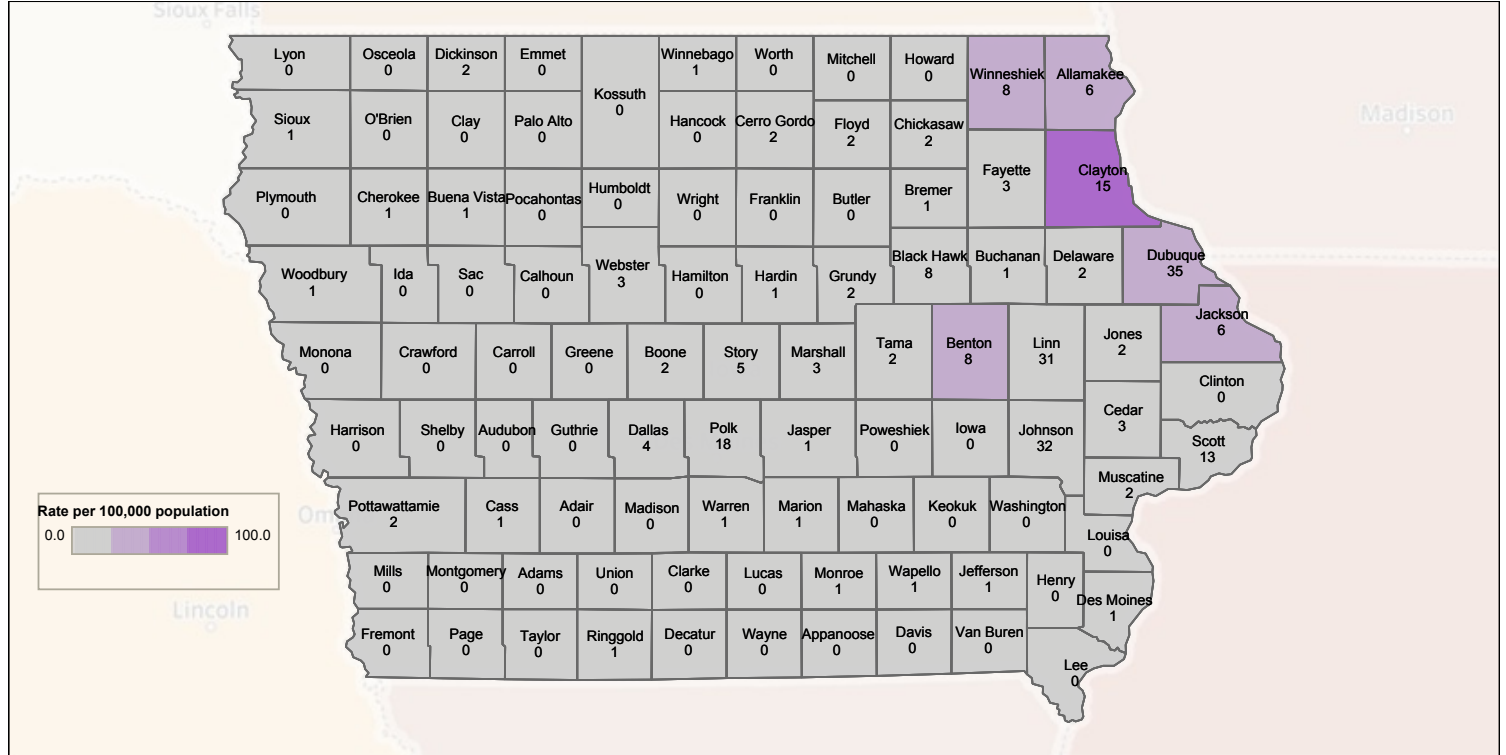
240

Cases in the last 12 months

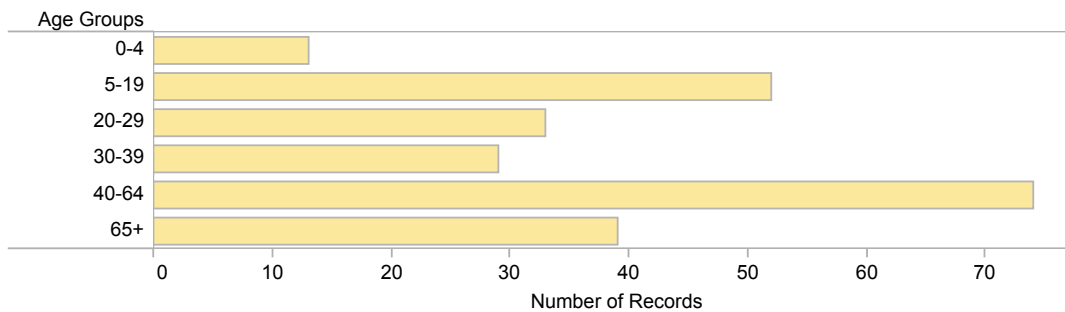
+1%

Change from previous
5 year average

Reported lyme disease cases and incidence rates per 100,000 population by county of residence for the past 12 months



Lyme disease cases by age past 12 months.



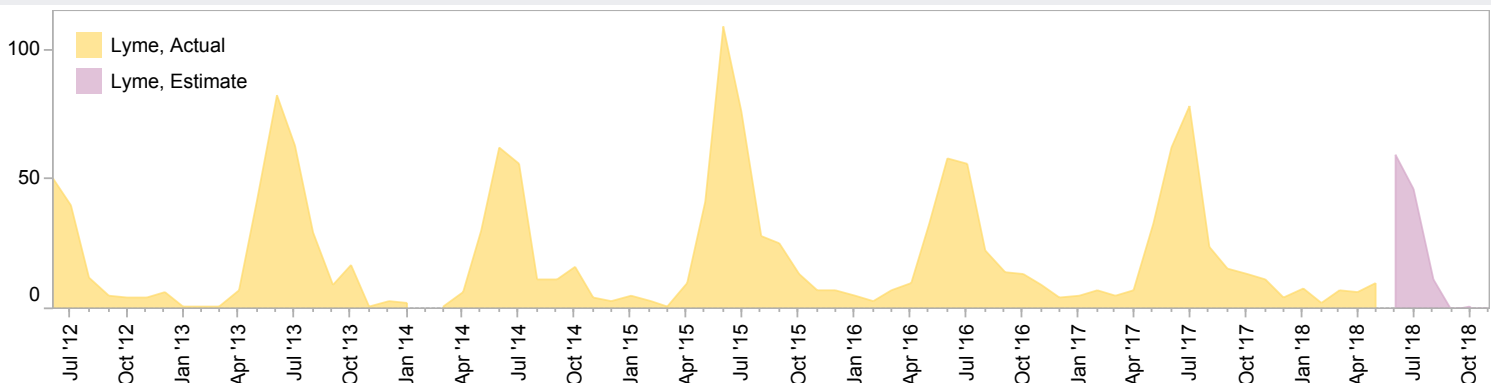
Hospitalizations in the past 12 months

34 (14%)

Lyme disease cases by gender past 12 months

Female	101
Male	139

Reported lyme disease cases by date of onset or first lab result and 6 month forecast



Mumps

1

Cases in May

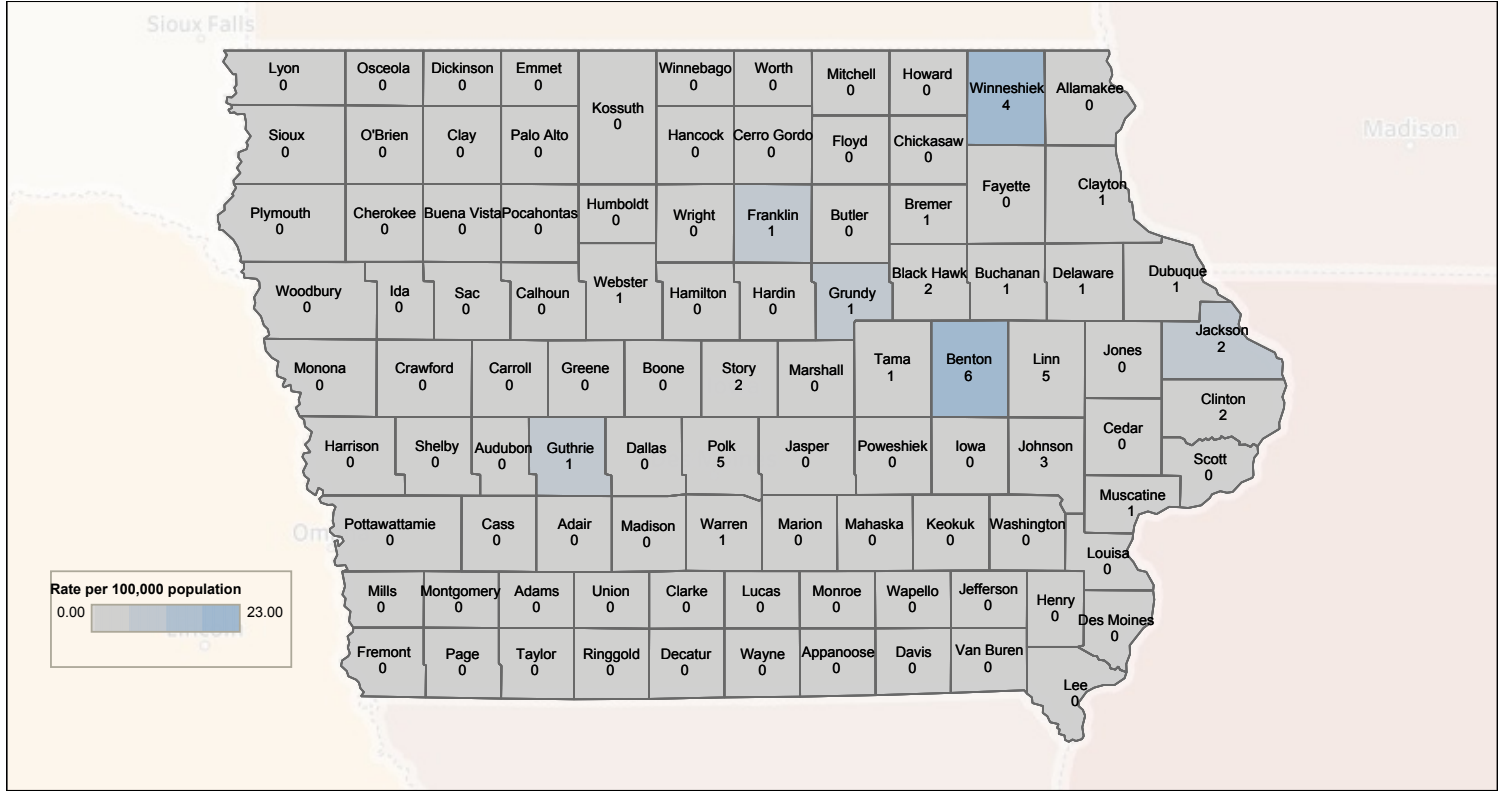
53

Cases in the last 12 months

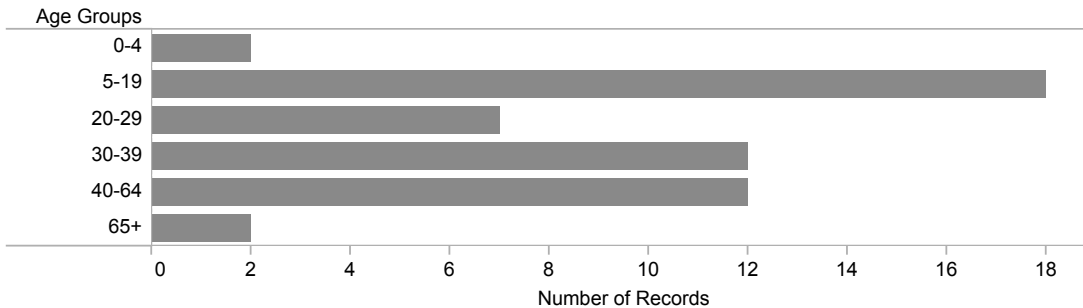
-79%

Change from previous
5 year average

Reported mumps cases and incidence rates per 100,000 population by county of residence for the past 12 months



Mumps cases by age past 12 months.



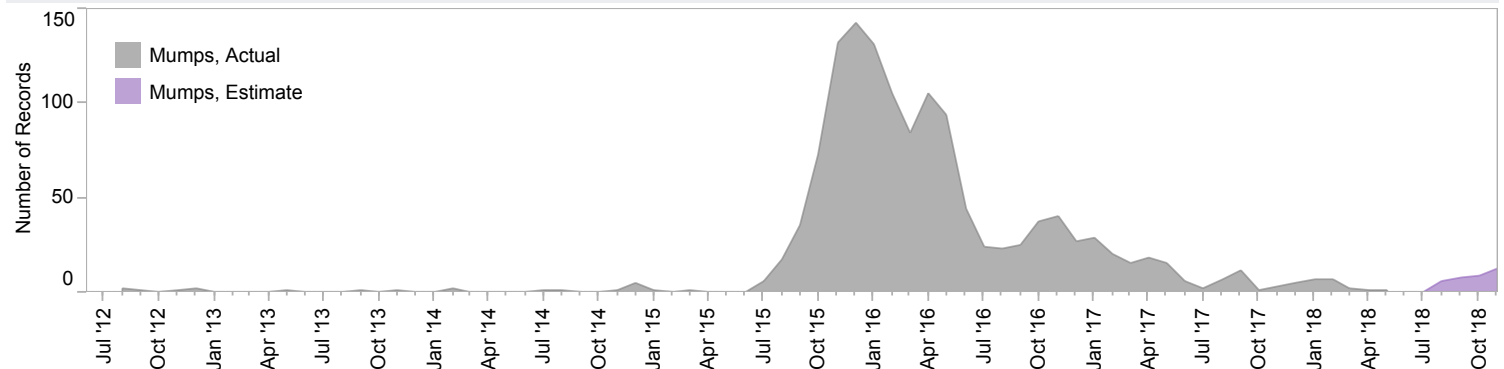
Hospitalizations in the past 12 months

5 (9%)

Mumps cases by gender past 12 months

Female	26
Male	27

Reported mumps cases by date of onset or first lab result and 6 month forecast



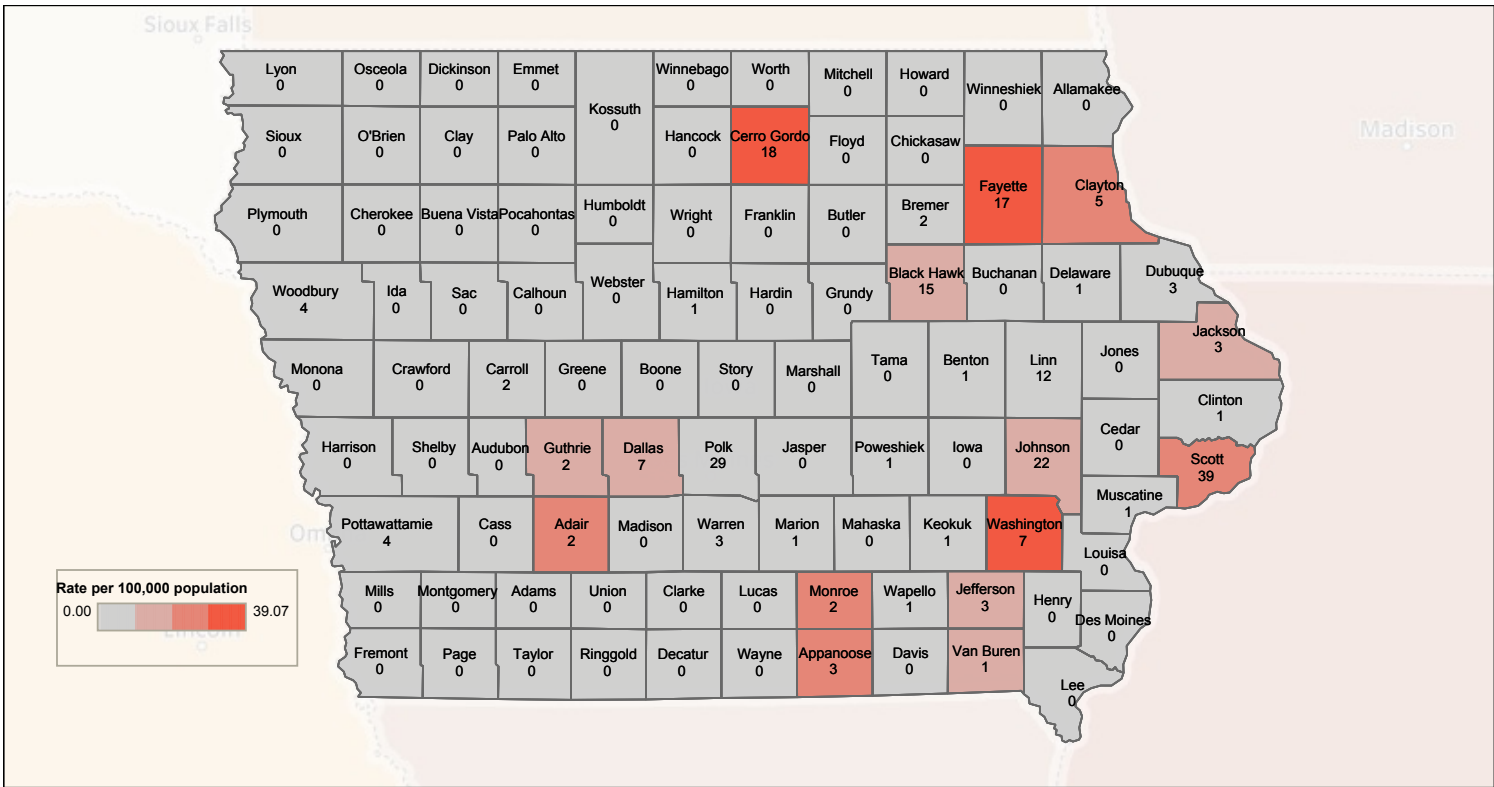
Pertussis

15 Cases in May
 214 Cases in the last 12 months
 -45% Change from previous 5 year average

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 214 Cases in the last 12 months
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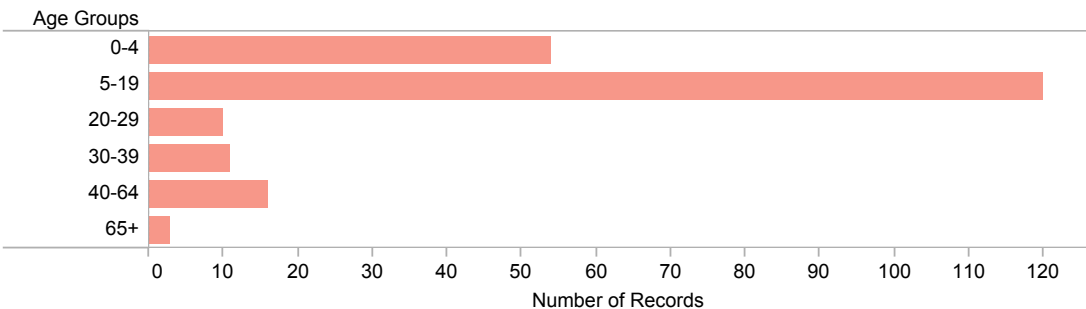
15 Cases in May
 214 Cases in the last 12 months
 -45% Change from previous 5 year average

Reported pertussis cases and incidence rates per 100,000 population by county of residence for the past 12 months



Pertussis cases by age past 12 months.

Hospitalizations in the past 12 months



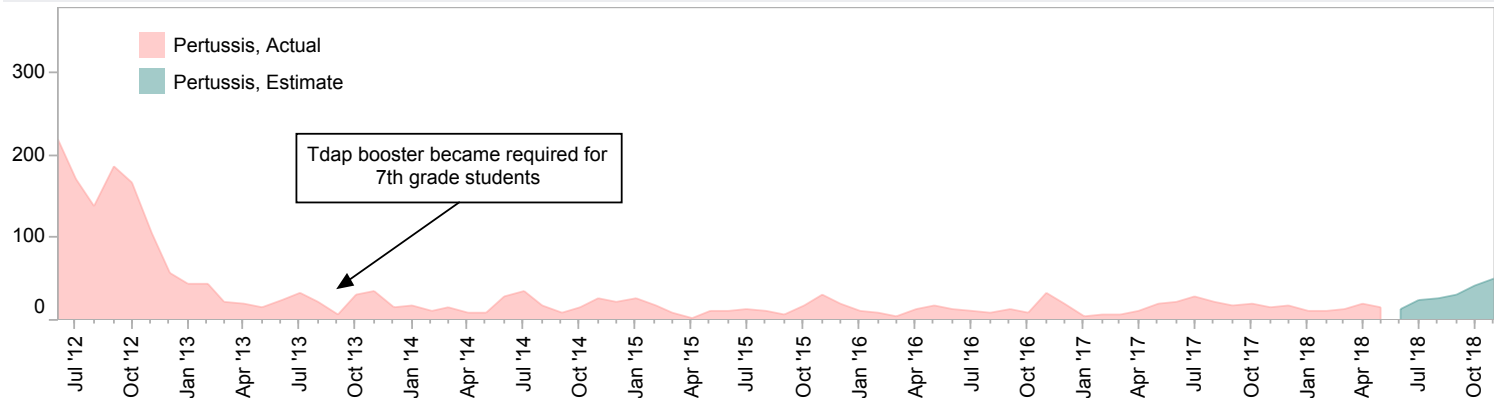
4 (2%)

Pertussis cases by gender past 12 months

Female	115
Male	99

Male	99
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Reported pertussis cases by date of onset or first lab result and 6 month forecast



Salmonella

63

Cases in May

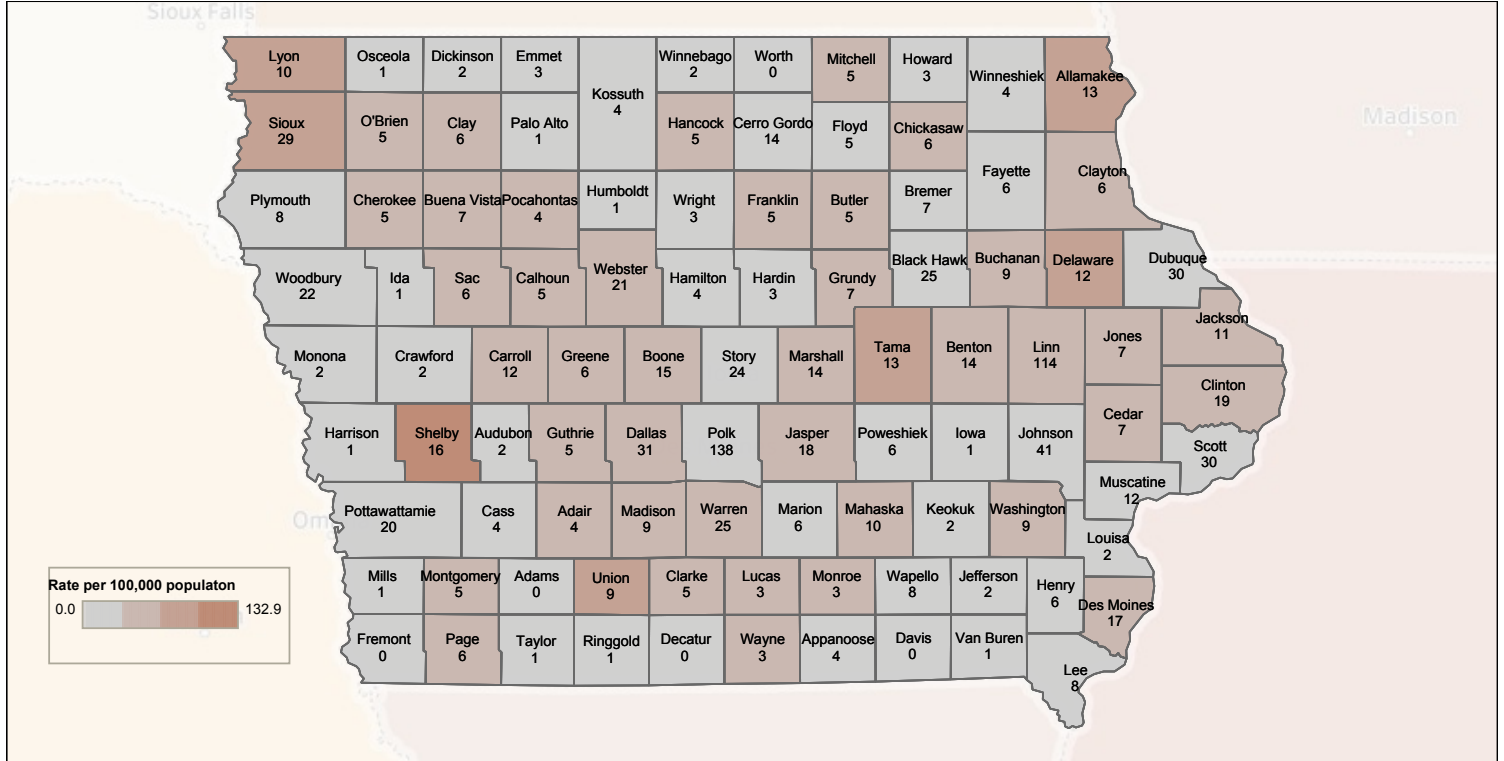
1055

Cases in the last 12 months

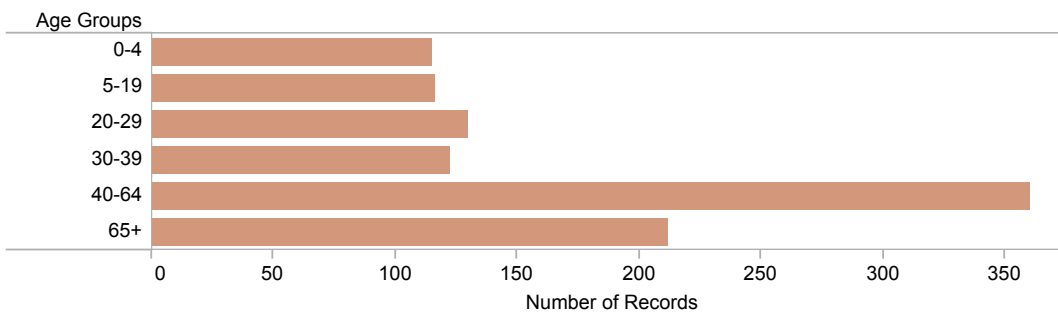
+64%

Change from previous
5 year average

Reported salmonellosis cases and incidence rates per 100,000 population by county of residence for the past 12 months



Salmonellosis cases by age past 12 months. Over a third of all cases occurred in the 40-64 year age group.



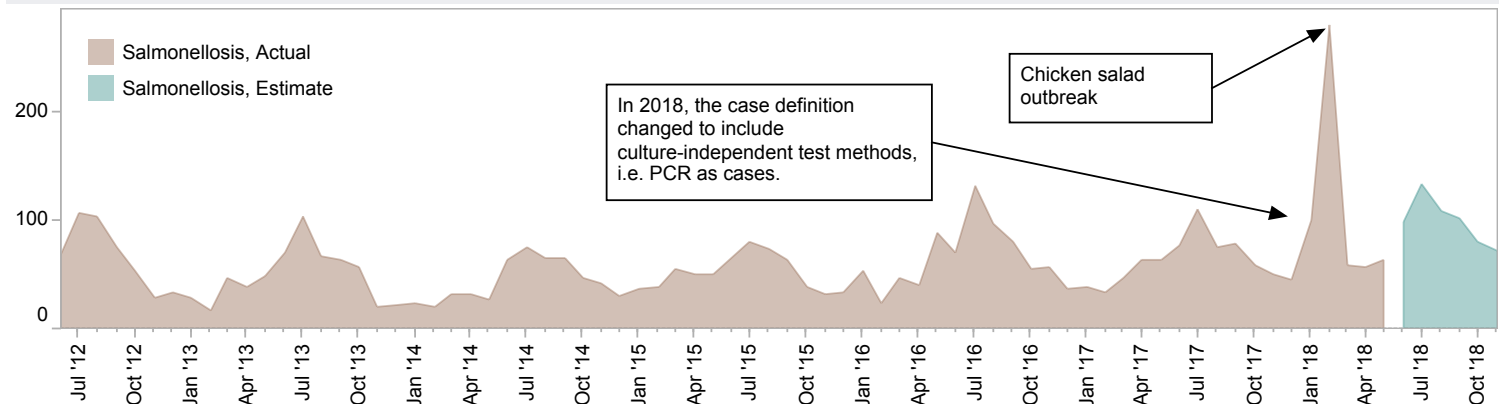
Hospitalizations in the past 12 months

264 (25%)

Salmonellosis cases by gender past 12 months



Reported salmonellosis cases by date of onset or first lab result and 6 month forecast



Shigella

4

Cases in May

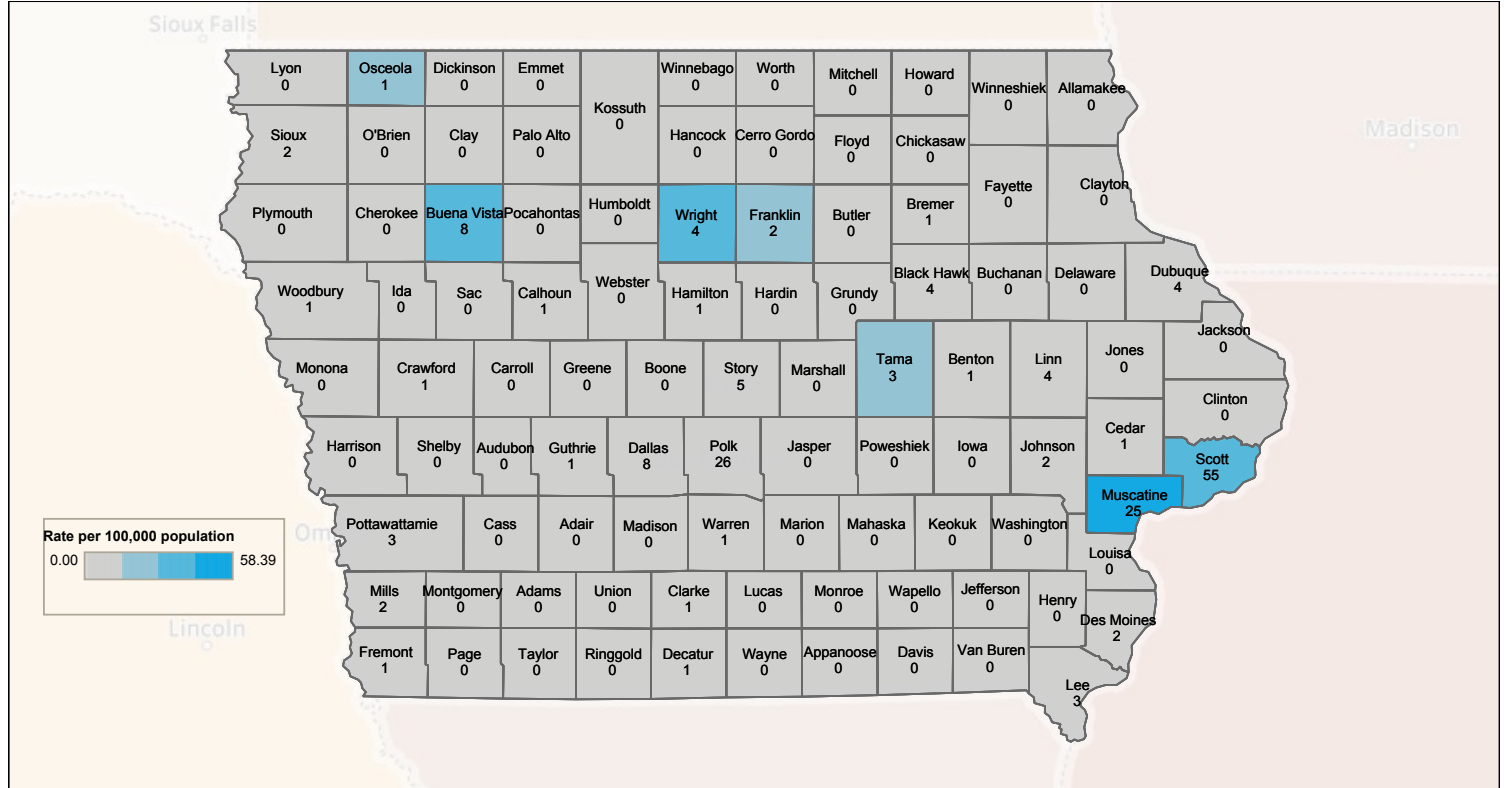
175

Cases in the last 12 months

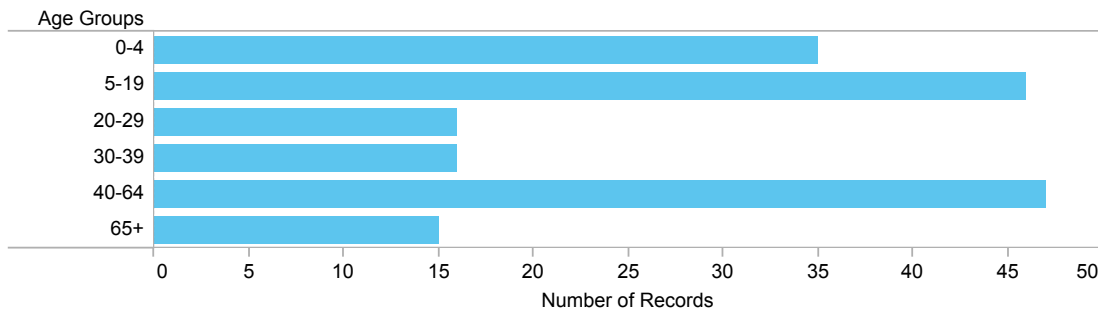
-51%

Change from previous
5 year average

Reported shigellosis cases and incidence rates per 100,000 population by county of residence for the past 12 months



Shigellosis cases by age past 12 months.



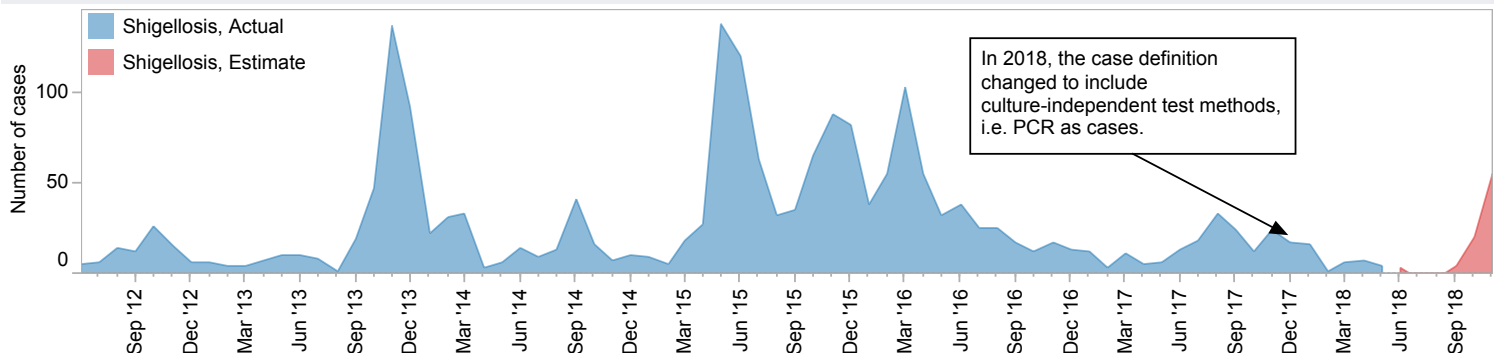
Hospitalizations in the past 12 months

28 (16%)

Shigellosis cases by gender past 12 months

Female	108
Male	67

Reported shigellosis cases by date of onset or first lab result and 6 month forecast



Select low-prevalence disease summaries

Legionella

0

Case in May

32

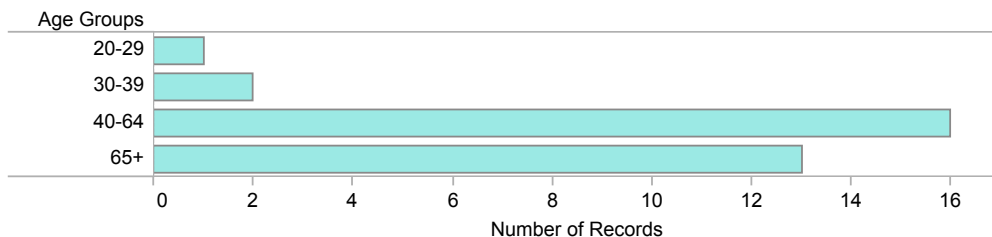
Cases in the last 12 months

+20%

Change from previous 5 years

..

Legionellosis cases by age past 12 months. No cases occurred in persons 0-19 years of age.



Hospitalizations in the past 12 months

30

Legionellosis cases by gender past 12 months

Legionellosis	Female	11
	Male	21

Q Fever (acute and chronic)

0

Case in May

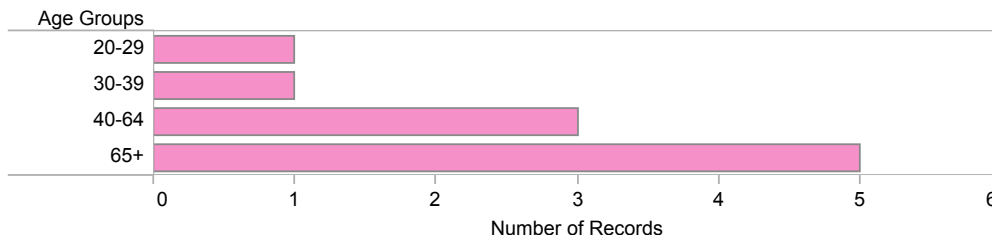
10

Cases in the last 12 months

-38%

Decrease from previous year
(Q fever was made reportable in 2016)

Q fever cases (acute and chronic) by age in the past 12 months. No cases occurred in persons 0-19 years old.



Hospitalizations in the past 12 months

7

Q fever cases by gender past 12 months

Q Fever (acute and chronic)	Female	2
	Male	8

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